

Figure 1 ON / OFF flow switch

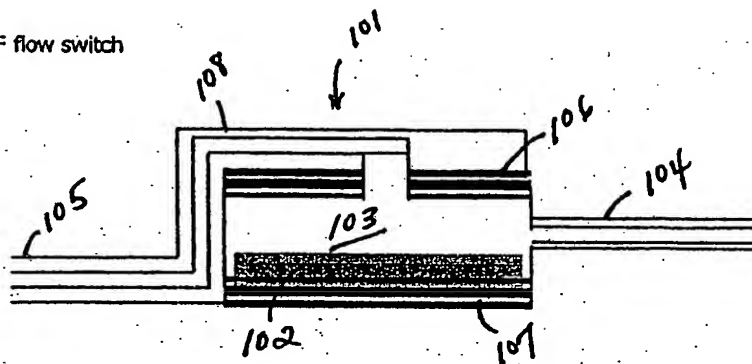
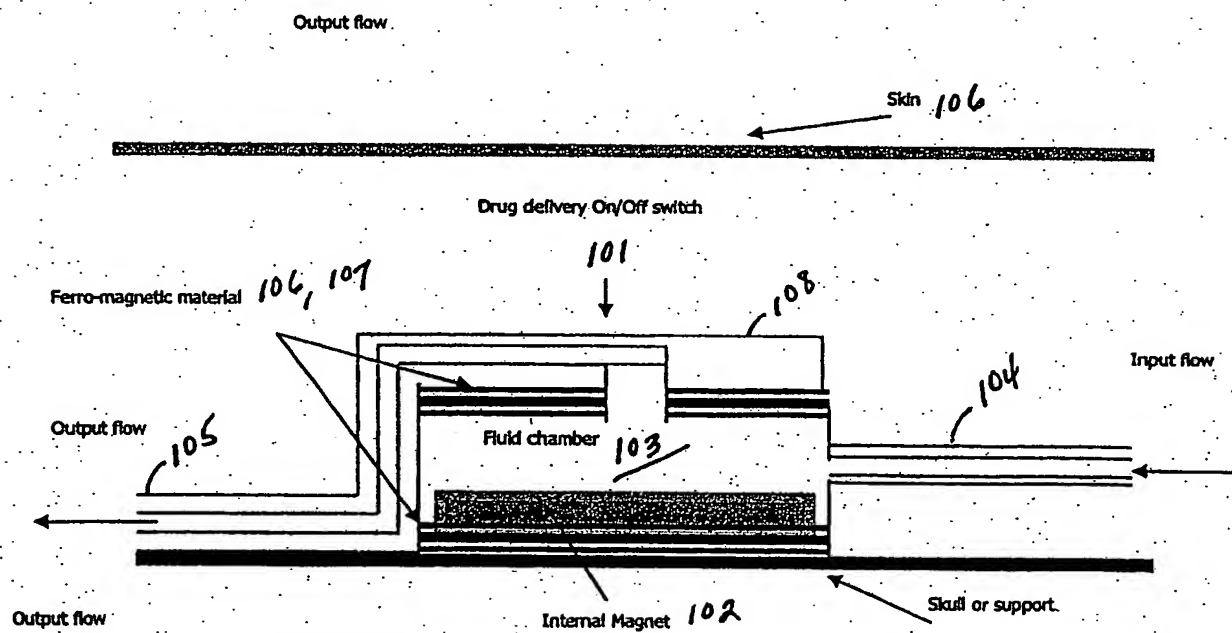


Figure 2 Drug delivery switch in the on position. Input and output flow are connected.



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Figure 3 Drug delivery switch in the off position due to position of an external magnet on the top of the skin. The external magnet attract the internal magnet of the fluid chamber and causes closure of the fluid flow.

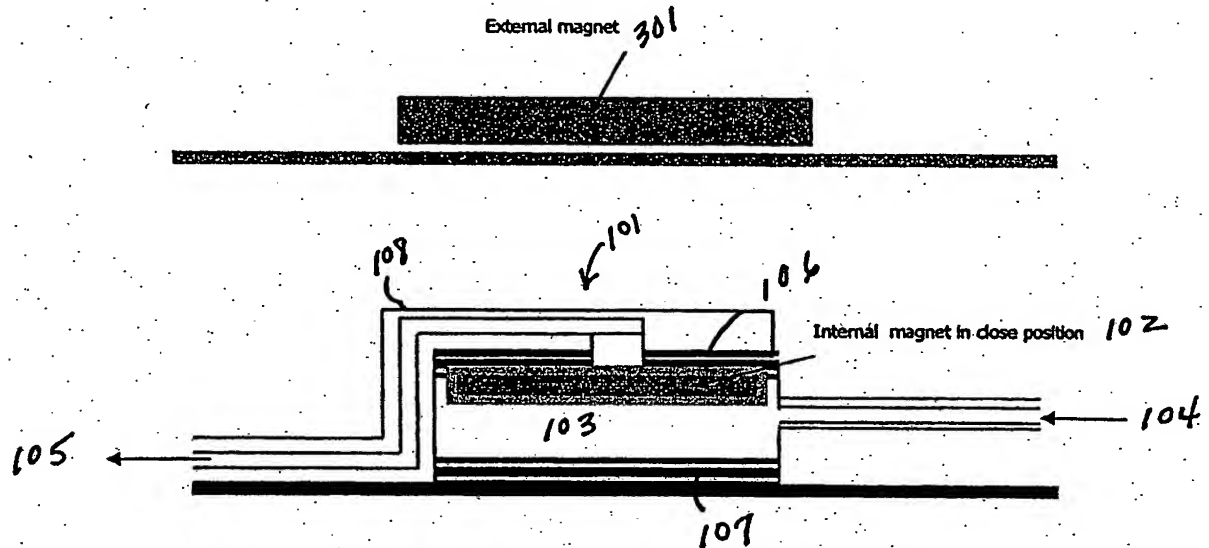


Figure 4 Fluid switch with a spherical magnet which is movable and which can turn in any direction. The switch is open during the presence of an external magnet

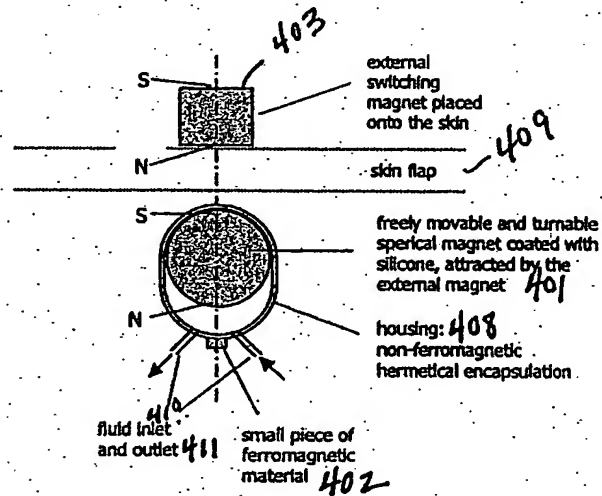


Figure 5 Fluid switch in stable OFF (dose) position when the external magnet is removed

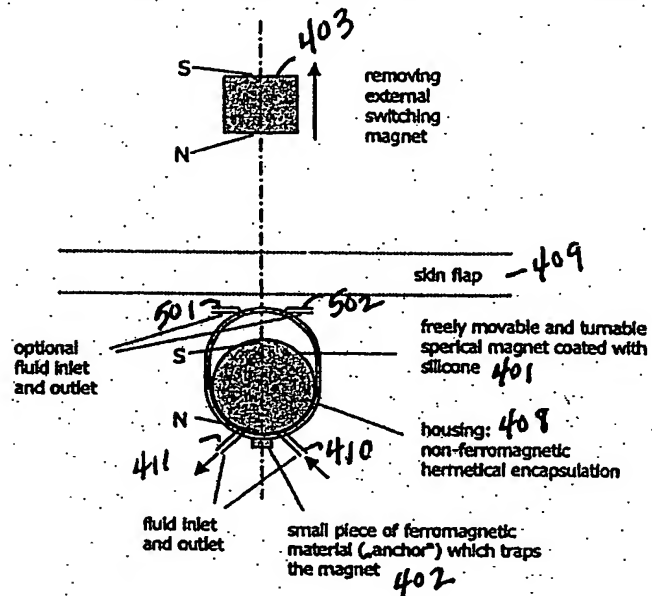


Figure 6 Fluid switch like in figure 4 but with grooves in the coating of the spherical magnet over one magnetic pole

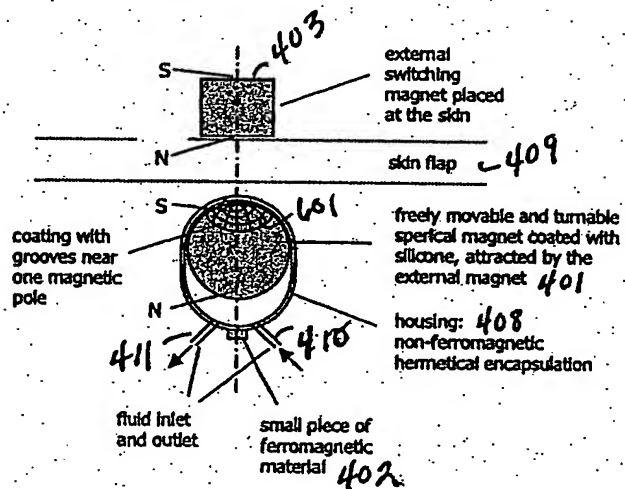


Figure 7 Fluid switch in stable OFF (close) position when the external magnet is removed

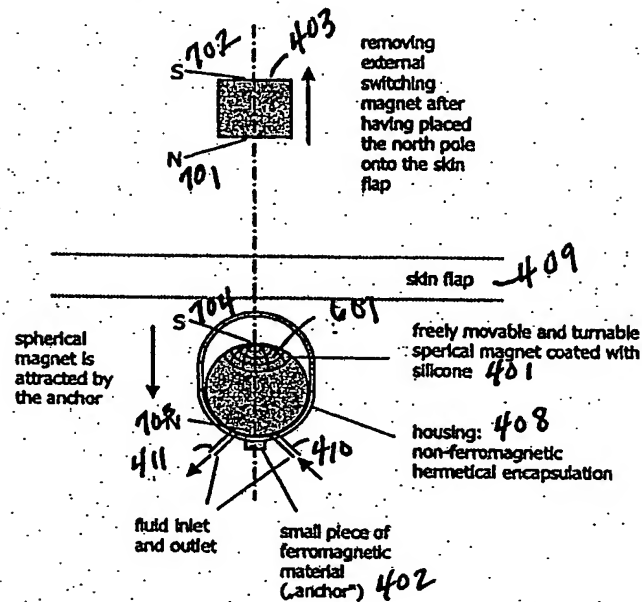


Figure 8 Fluid switch in stable ON (open) position when the external magnet is removed, the fluid can pass through the grooves.

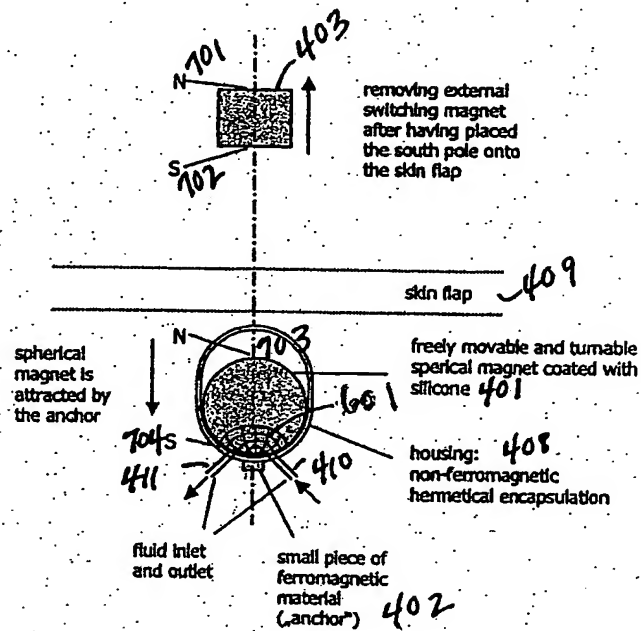


Figure 9 External Indicator for checking the state of the switch

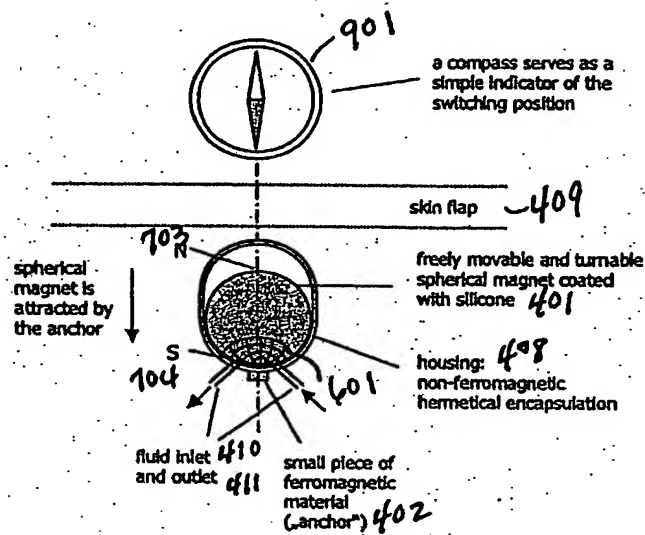


Figure 10 Switch where the coating over one magnetic pole is recessed or is replaced by another (e.g. semi-permeable) material

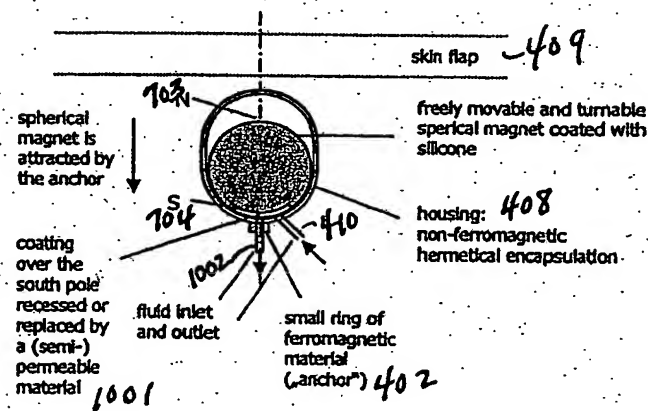


Figure 11 Bi-stable switch with a spherical magnet which is free to turn into any direction

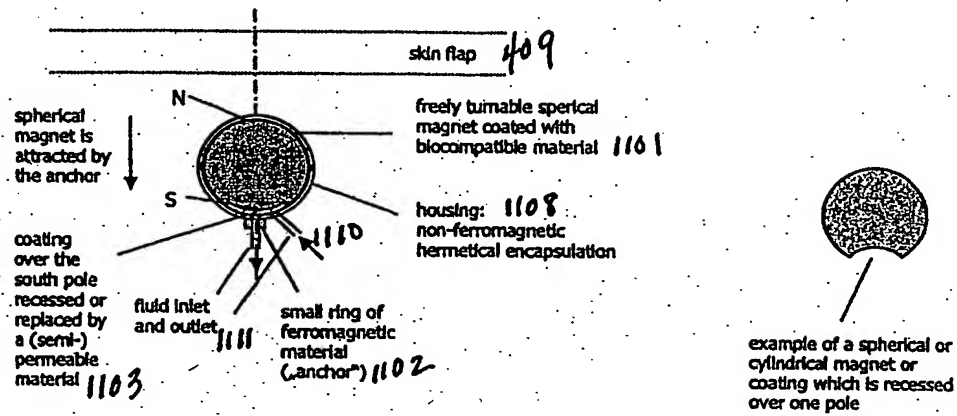
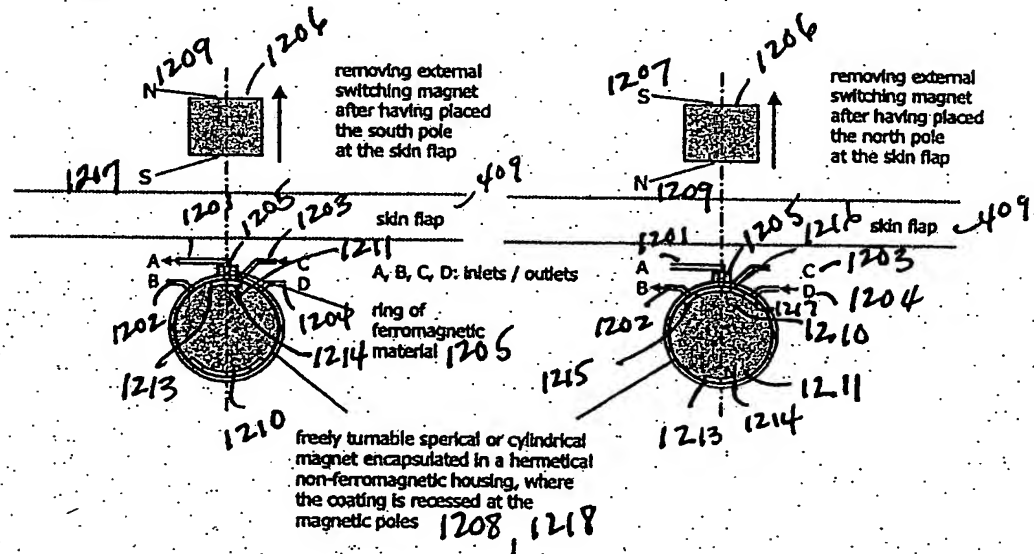
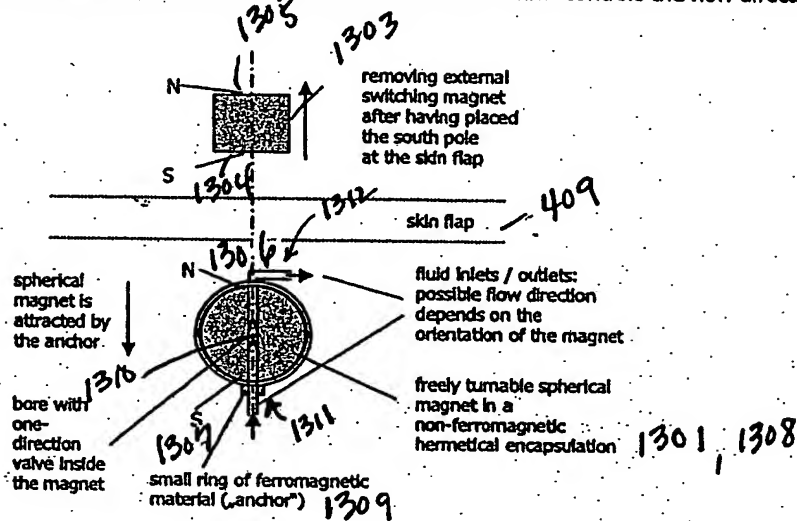


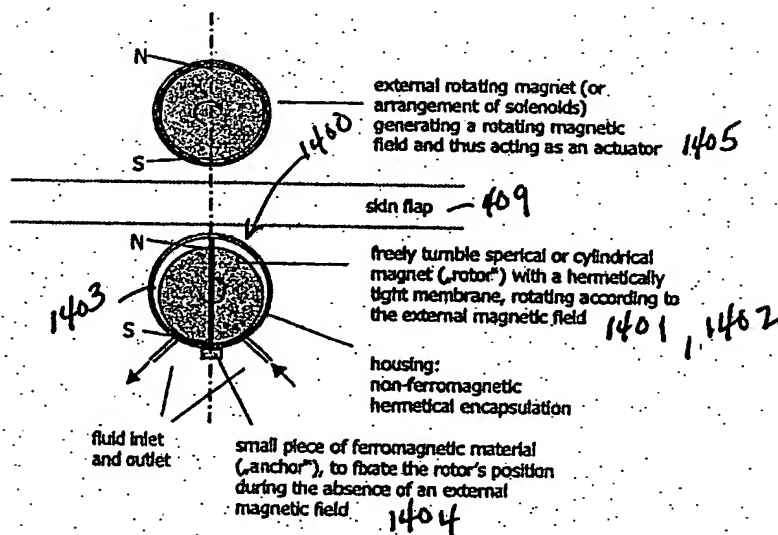
Figure 12 Fluid switch with two inlets and two outlets which are open / closed depending on the switching state



**Figure 13 Magnetically activated implantable fluid switch which controls the flow direction**



**Figure 14 Magnetically driven fluid pump which interrupts fluid flow when no external magnet is present**



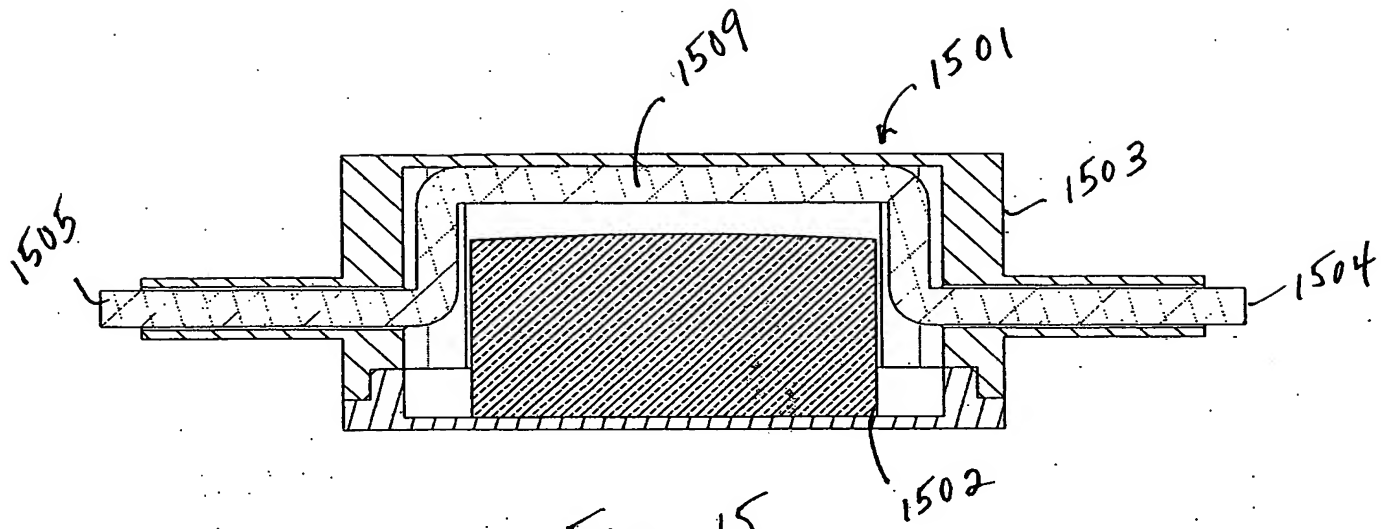
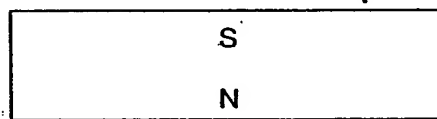


Fig. 15



external  
magnet

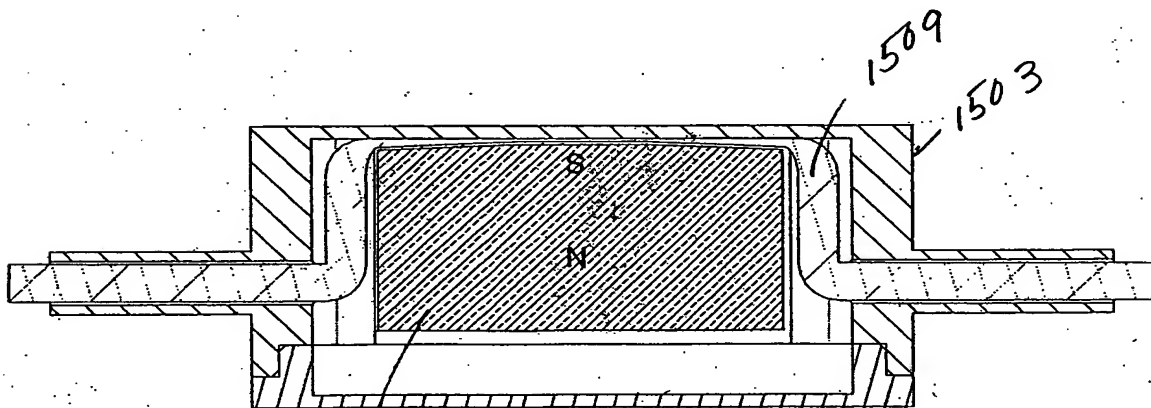


Fig. 16



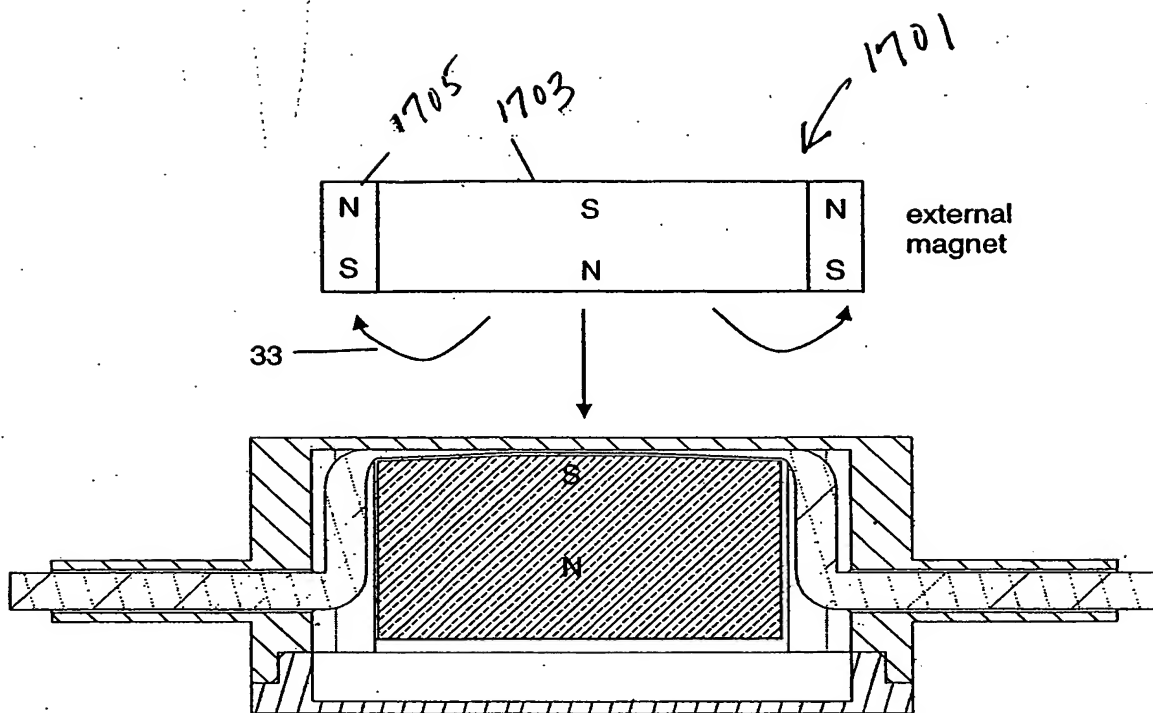


Fig. 17

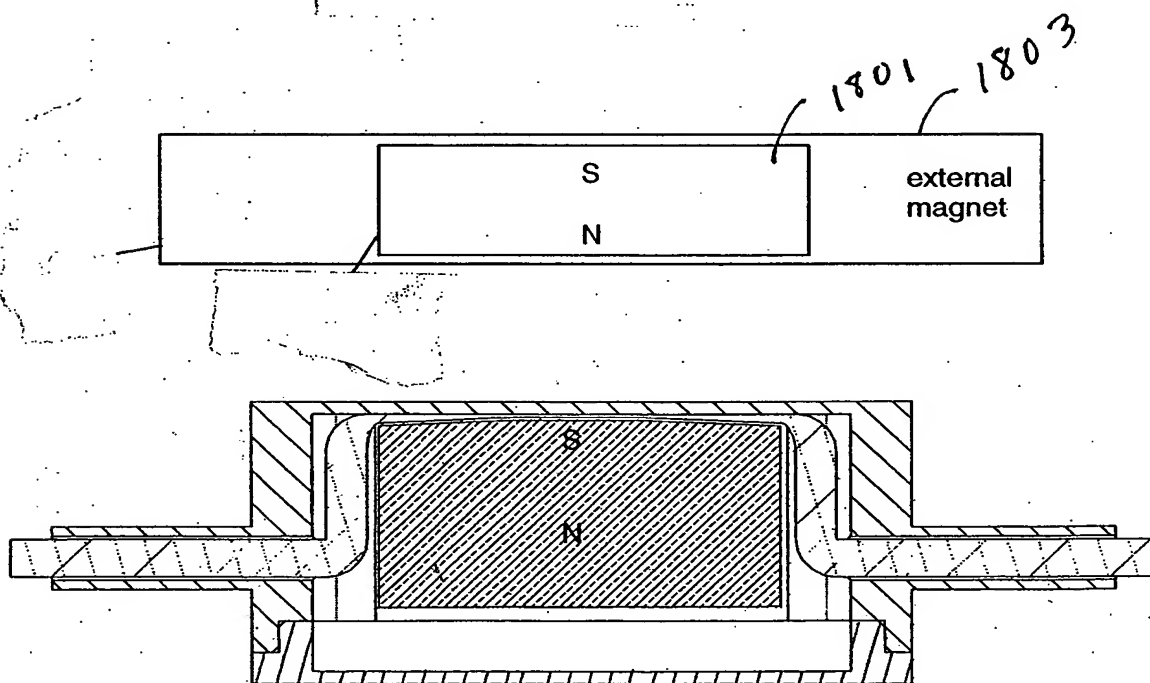


Fig. 18

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